

1 Please add the following new claims 29-31:

5B B2
1 --29. (New) A sensor array for detecting an analyte in a fluid, said sensor
2 array comprising: first and second sensors wherein said first sensor comprises a sensing
3 region of an aligned conductive magnetic material and a nonconductive insulating region;
4 and wherein said sensor array is electrically connected to an electrical measuring
5 apparatus.

1 30. (New) The sensor array for detecting an analyte in a fluid in
2 accordance with claim 29, wherein said aligned conductive magnetic material comprises
3 iron.

1 31. (New) The sensor array for detecting an analyte in a fluid in
2 accordance with claim 29, wherein said nonconductive insulating region is a polymer.--

REMARKS

Claims 1-31 are pending in this application and presented for examination. Claim 1 has been amended. Claims 29-31 have been newly added. Attached hereto is a marked-up version of the changes made to claim 1 by the current amendment. The attached page is captioned "Version with markings to show changes made." No new matter has been introduced with the foregoing amendment and new claims. Reconsideration is respectfully requested. All the claims are set forth in the Appendix for the Examiner convenience.

I. THE INVENTION

The present invention relates to improvement of the signal to noise ratio of vapor sensors, which allows for lower detection limits by increasing the dynamic range. The present invention provides, *inter alia*, a sensor array comprising: first and second sensors wherein the first sensor comprises a sensing region of an aligned conductive material and a nonconductive region; and wherein the sensor array is electrically